



chain nodes :

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					

chain bonds :

exact/norm bonds ::

1-2 1-3 1-4 1-5 3-6 4-12 7-8 8-9 8-10 8-11 13-14 14-17 15-16 16-18 17-19 18-20

exact bonds :

6-7 12-13 13-15 17-21 18-35 21-22 22-23 23-24 24-25 25-26 26-27 27-28 28-29 2
30-31 31-32 32-33 33-34 35-36 36-37 37-38 38-39 39-40 40-41 41-42 42-43 43-44

44-45 45-46 46-47 47-48

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS
47:CLASS 48:CLASS